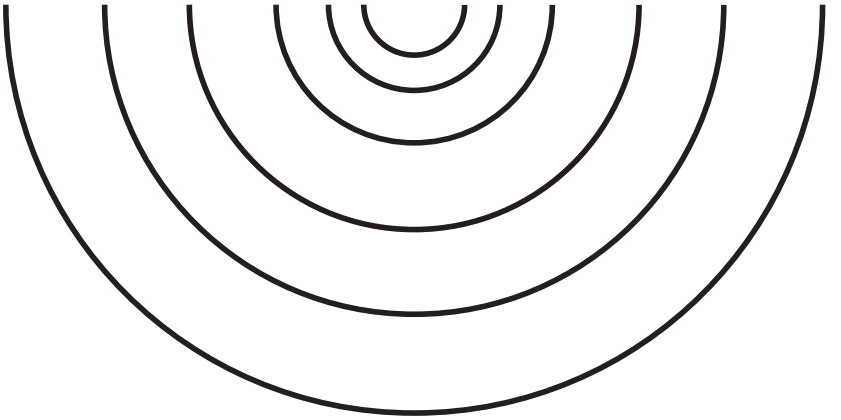


OKUR

A7 3500H.1, A7 3500L.1, A7 7500.1

User Manual

Installation Instructions/Owner's Manual

www.dbdrive.net

DUE TO CONTINUOUS IMPROVEMENT OF THE PRODUCT THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

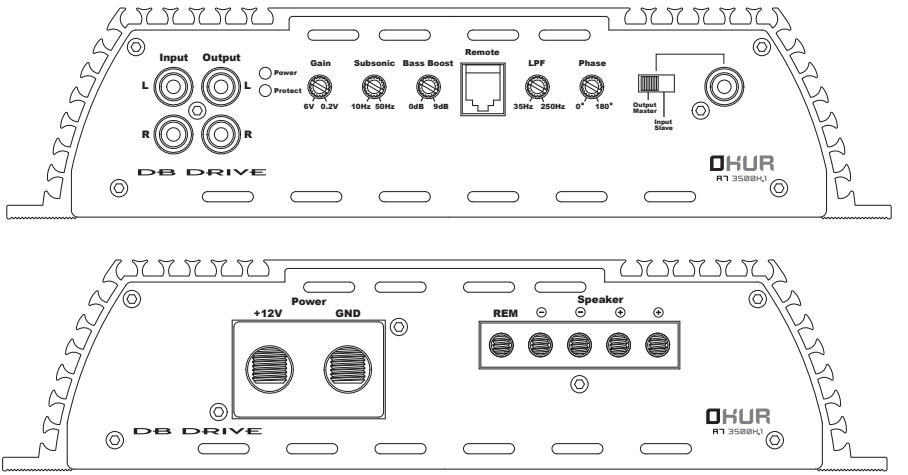
1. OKUR COMPETITION AMPLIFIERS' SPECIFICATION

1-1. OKUR COMPETITION AMPLIFIERS

Load	Voltage & THD	A7 3500L.1	A7 3500H.1	A7 7500.1
4ohm	14.4 volts & 1%	1 X 900	1 X 900	1 X 2000
2ohm	14.4 volts & 1%	1 X 1800	1 X 1800	1 X 4000
1ohm	14.4 volts & 1%	1 X 3500	1 X 3500	1 X 6500

Working Voltage	10~16Volts for A7 3500L.1 8.5~18Volts for A7 3500H.1 & A7 7500.1
Frequency Response	20Hz ~ 250Hz
Signal to Noise Ratio	< 100dB
Damping Factor	250 <
Low Level Input	6V ~ 0.2V
Low Pass Filter Variable	35Hz ~ 250Hz
(@ 24dB Slope)	
Bass Boost @ 45Hz Variable	0 ~ 9dB
Subsonic Filter	
(@ 24dB slope) Variable	10Hz ~ 50Hz
Phase Shift Variable	0 ~ 180 degree
Master/slave (Linkable)	Yes
Remote Level Control	Yes
RCA line Output	Yes
Minimum working impedance	1 ohm for single unit 2 ohm for linked

2. OKUR COMPETITION AMPLIFIER'S CONTROL & CONNECTION.



INPUT
Connect RCA output cables from the headunit to OKUR Competition amplifiers' RCA Input

OUTPUT
Is used when connecting multiple amplifiers

POWER & PROTECTION INDICATOR
Power LED - Green-lit shows normal operation.
Protect LED - RED-lit shows general malfunction, faulty connection or thermal protection.

GAIN (6V ~ 0.2V)
Matching the output voltage of the headunit's RCA line-outs to OKUR amplifiers' input section.

SUBSONIC FILTER (10Hz ~ 50Hz @ 24dB/Oct)
Control the high Pass point for the speaker outputs to eliminate extreme low frequencies that can damage your subwoofers.

BASS BOOST (0~9dB @ 45Hz)
It boosts the bass 0 ~ 9dB

REMOTE LEVEL CONTROL PORT
This port is for connecting remote gain level control

LOW PASS FILTER (35Hz ~ 250Hz @ 24dB/Oct)
Controls the low pass point for the speaker outputs.

PHASE (0 ~ 180 degree)
It controls phase from 0 ~ 180 degree.

OUTPUT MASTER / INPUT SLAVE
OUTPUT MASTER / INPUT SLAVE connection makes OKUR Competition amplifiers as daisy china connection to 2 ohm.

+12V (POWER CONNECTION)
This must be connected to the fuse positive terminal (+12V) of the battery.
Recommenede wire is 0 gauge for A7 3500L.1, A7 3500H.1 & A7 7500.1.
Check the battery voltage.

GND (GROUND CONNECTION)
It is connected to the Negative or ground cables of the vehicle.
Recommenede wire is 0 gauge for A7 3500L.1, A7 3500H.1 & A7 7500.1.

REM (REMOTE)
It is connected to switched +12V with a trigger cable coming from the head unit.

SPEAKER OUTPUTS
It connects amplifier's terminal to subwoofer speakers.
Minimum speaker wire is 12 gauge.
Minimum impedance is 1 ohm for single unit.
Linked connection's minimum impedance is 2 ohm.

3. INSTALLATION

In case you install the OKUR Competition amplifiers by yourself, please read owner's manual very carefully. before your installation. please take all steps into consideration. or, you can have DB Drive or DB Research's authorized dealer to check installation and set your car audio systems.

3-1. MOUNTING PREPARATION

Disconnect the negative (-) battery cable before mounting your OKUR competition amplifiers or making any connections. Check the battery and alternator ground (-) connections. Make sure they are properly connected and free of corrosion before selecting a mounting location. Please take some concerns into consideration with cooling efficiency and safety.

3-2. MOUNTING PREPARATION

The OKUR competition amplifiers use a spcially designed heat radiation heatsink to avoid excessive heat from OKUR circuitry. But for better heat dissipation, it is good to find the mounting location where you can install OKUR vertically with the heatsink fins and better air flow around heatsink.
For the safety, You have to find a dry and well ventilated location and make sure any cables and drilling car equipment are not interfere with mounting location. Be sure the mounting location and drilling of pilot cables will not present a harzard to any cables, control cables, fuel lines, fuel tanks, hydraulic lines or other vehicle systems or components.

3-3. +12V, GND, REM CONNECTION.

12V (POWER CONNECTION)
Before mounting OKUR competition amplifiers, disconnect the negative (-) wire from battery to protect any accidential damage to amplifier and audio system. A7 3500L.1. A7 3500H.1 and A7 7500.1 are designed to use minimum 0 gauge cables.
Connect the power cables to power terminal labeled as +12V. A7 3500L.1, A7 3500H.1 and A7 7500.1 are not equipped with fuses so you need to install external fuses.
In order to install external fuses, connect one end of fuse holder to the power cable and the other end of fuse holder to positive battery within 18in of the same cable gauge. This fuse location will protect the system and the vehicle against the possibility of a short circuit in the power cable.
Be sure to use fuses and fuse holders adequate for the current draw application.

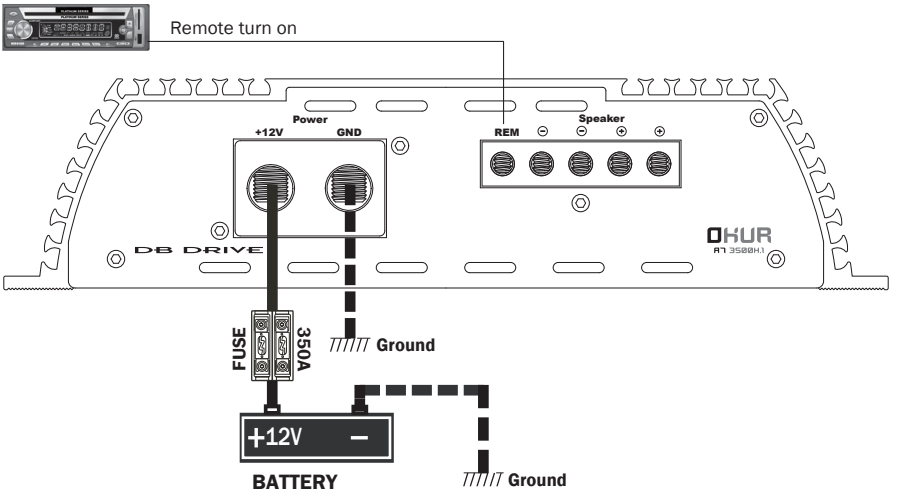
GND (GROUND CONNECTION)

Locate a secure grounding connection as close to OKUR series as possible. Make sure the location is clean and provides a direct electrical connection to the frame of the vehicle.
Connect one end of a short piece of the same gauge cable as the power cable to the grounding point.
Run the one end of the cable to the grounding point. Run the other end of the cable to the mounting location.
Connect the ground cable to the screw terminal labeled as GND.

REM (REMOTE CONNECTION)

Run a remote turn on cable from the headunit's remote swithed +12V output.

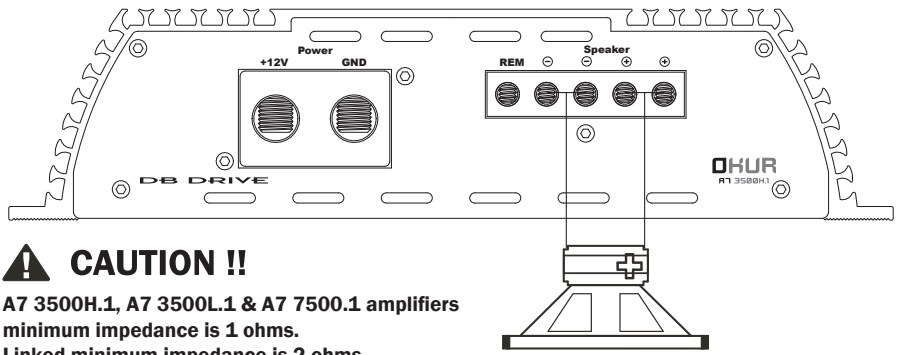
OKUR COMPETITION AMPLIFIER +12V, GROUND, REMOTE CONNECTION DIAGRAM



3-4. SPEAKER CONNECTION

DB Drive recommends to use minimum 12 gauge speaker connecting cables. Run 12 gauge speaker connecting cables from your speakers to OKUR amplifier's mounting location.
Keep speaker cables away from the power cables and OKUR amplifier's input cables. Use grommets anywhere the cables have to pass through the holes in the metal frame or sheet metal. Connect to the speakers according to the type of terminals on each speaker. Strip 3/8" of insulation from the end of each cable and twist the cables strands together tightly. Make sure there are no stray strands that might touch other cables or terminals and cause a short circuit.
Crimp spade lugs over the cable ends or tin the ends with solder to provide a secure termination.
Connect the cable ends to OKUR competition amplifiers as speaker system diagram.

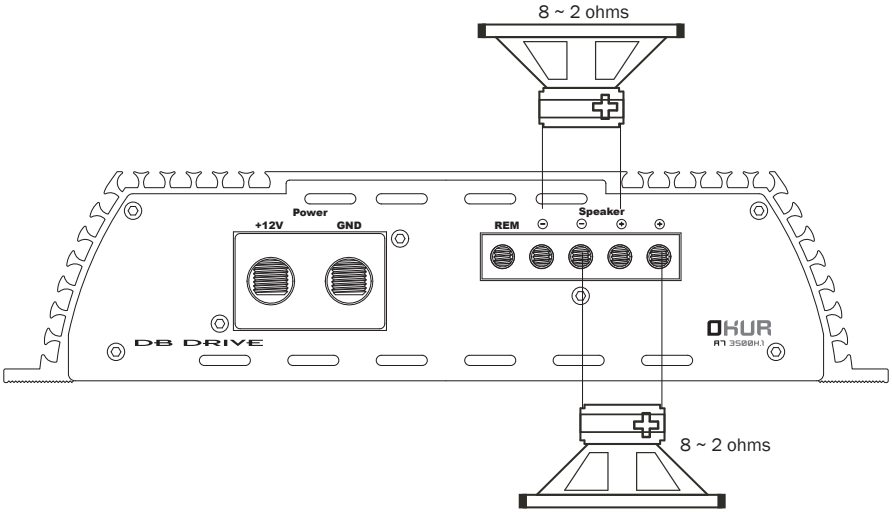
OKUR SPL COMPETITION DIGITAL MONOBLOCK AMPLIFIERS' SPEAKER CONNECTION DIAGRAM 1.



⚠ CAUTION !!

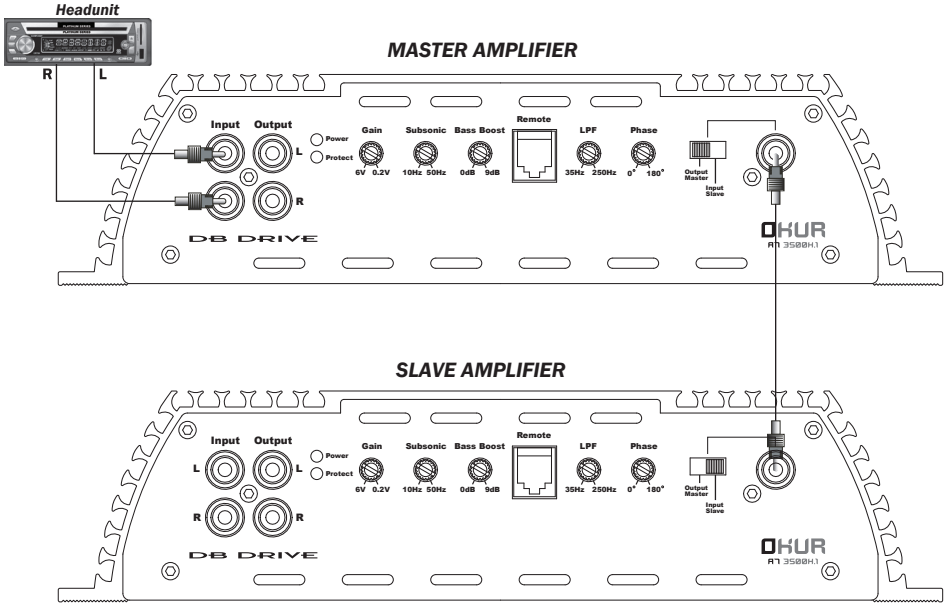
A7 3500H.1, A7 3500L.1 & A7 7500.1 amplifiers minimum impedance is 1 ohms.
Linked minimum impedance is 2 ohms.

OKUR COMPETITION DIGITAL MONOBLOCK AMPLIFIERS' SPEAKER CONNECTION DIAGRAM 2

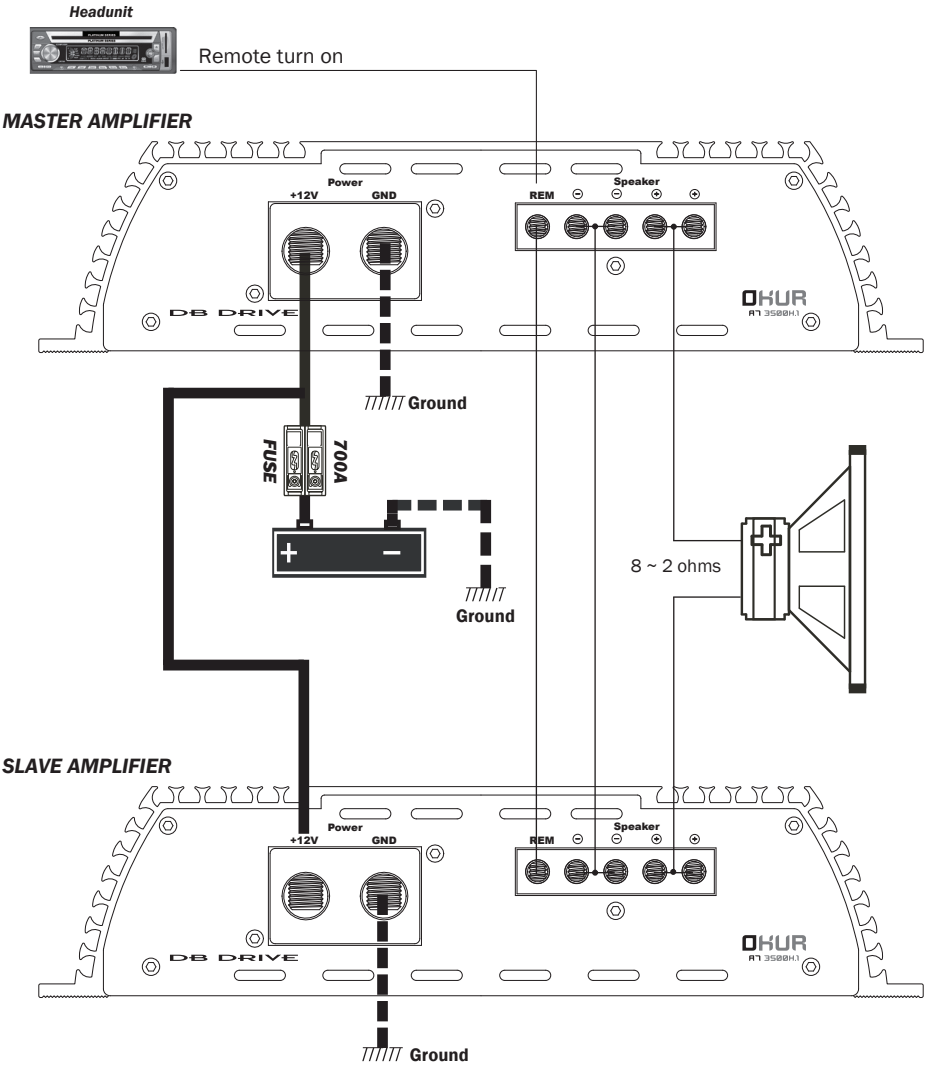


3-5. OKUR COMPETITION AMPLIFIER'S MULTI-LINKING CONNECTION.

Multi-linking connection allows linking of 2 digital amplifiers to work as 1.
Please read the following connection diagram cautiously to ensure the correct connection.
Step 1. Connect the master amplifier to the headunit and set its output master and input slave switch to output master position.
Step 2. Connect the master and slave amplifiers in daisy chain RCA Jack as shown in the diagram.
Step 3. Set slave amplifier output master & input slave switch to slave input position.



Step 4. Connect speaker cable (+) on master amplifier to subwoofer (+).
Step 5. Connect speaker cable (+) on slave amplifier to subwoofer (-).
Step 6. Connect speaker cable (-) on master amplifier to speaker cable (-) on slave amplifier



⚠ CAUTION !!

A7 3500H.1, A7 3500L.1 & A7 7500.1, Amplifiers Linked minimum impedance is 2 ohms.
A7 3500L.1 working voltage is 8.5~ 16volts
A7 3500H.1 and A7 7500.1 working voltage is 8.5~18volts.

4. TROUBLE SHOOTING

NO SOUND (NO OUTPUT)

1) Please check all connections, cables' routing, short and voltage at OKUR amplifiers and headunit.
2) Please check built-in or external fuses, If it is brown, please repalce with new one.
3) Please check whether speakers work well, you can test speakers by connecting to another amplifiers.

PROTECTION

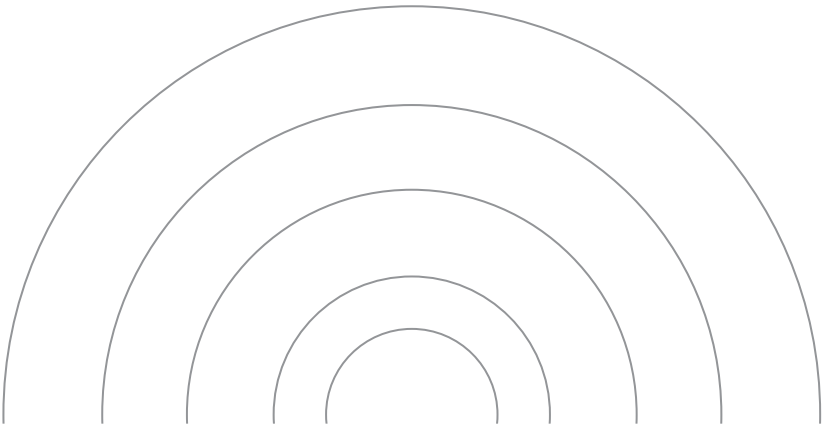
1) Please check overload, overheat (thermal) , short, voltage and DC offset.
2) Minimum working impedance for A7 3500L.1, A7 3500L.1 and A7 7500.1 is 1 ohm for single unit and 2 ohm for linked operation.
3) If the OKUR competition amplifiers are shut down due to overheat, Reset by turning off the remote input and allowing time to cool down.
   Please make sure there are no airflow obstructions around OKUR competition amplifier to prevent thermal protection.
4) A7 3500L.1 has voltage protection as 8.5 ~ 16 volts
   A7 3500H.1 and A7 7500.1 have voltage protection as 8.5 ~ 18volts
   If Voltage is out of range as above, OKUR competition amplifiers will be protected.

POOR BASS RESPONSE

1) Please check speaker polaritys.

WHINING NOISE

1) Engine noise is caused by poor grounding of OKUR amplifiers, headunit, other components, battery or alternator, so please check all grounding connections.



LIMITED WARRANTY

Due to the nature of the use of this product, DB DRIVE warrants the OKUR A7 3500L.1, A7 3500H.1 and A7 7500.1 amplifiers for a period of 90 days from the date of original invoice. This warranty applies to the original purchase only. The Amplifier must be purchased directly from an authorized DB Drive dealer or DB Research.

This limited warranty does not extend to units that have been subjected to misuse, abuse, neglect, or accident. Products that in DB DRIVE's judgment shows evidence of having been altered, modi ed, abused or serviced without DB DRIVE's authorization, will be ineligible under this warranty.

The original sales invoice must be presented at the time any warranty claim is made. All Amplifier returned for warranty will be inspected before any warranty agreement is issued. When warranty is approved the unit will be repaired to its original working condition.

For any questions about the warranty or to obtain warranty service please contact DB Research.

DB Research L.L.
302 Hanmo re Industrial Parkway // Harlingen, TX 78550
ph: 877.787.0101 // ww w.dbdrive.net